



SQL + PL/SQL

Database Architecture & Management

SYLLABUS/ COURSE CONTENT
TIME DURATION: 4 MONTHS

SQL content

- List the Oracle database 11g to 12c main features
- An overview of components internet platform app server and developer soap
- Describe relational and object relational database designs
- Normalization concept
- Define the term data models
- Review the system development life cycle
- Describe different means of sorting data
- Show how multiple tables can be related
- Writing Complex query and tune SQL Query
- Describe how SQL communicates to the database
- Introducing SQL basic commands
- Introduction of SQL
- Writing basic select statements
- Restricting and sorting of data
- Introducing SQL function
- Single row function/ scalar function
- Multiple row function/ aggregate function/ group by function
- Conditional expression
- Using substitution on variable

- **Introducing SQL commands**
- **Using DDL statements**
- **Managing tables**
- **Data manipulation operation**
- **Understanding transaction**
- **Using transaction control statements**
- **Overview of locks**
- **Using flashback and purge command**
- **Granting and revoking system and Object privileges**
- **Designing Tables by using key constraints**
- **Deferred constraints**
- **Retrieving data from more than one table using join operation.**
- **Aggregating data using group functions**
- **Introducing the view**
- **Introducing the indexes**
- **Introducing the synonyms**
- **Introducing with sequence and used with database**
- **Introducing some queries**
- **Single row sub query, multiple rows of query**
- **Correlated sub query,**
- **Top -n analysis**
- **Using the set operators**

- Inserting and updating data
- Deleting data
- Creating other schema objects
- Managing objects with data dictionary views
- Date and time function
- Rollup and cube after using group by function
- Multiple insertion and the types
- Hierarchical tree
- SQL loader
- Advanced SQL
- Overview of analytical function
- Introducing in the line view
- Introduce introduction of window function
- Materialized view
- Overview of restaurant
- Overview of semi join and anti-join
- Embedding search query with DML operation

PL/SQL Content:

- What is a procedural language?
- Difference between procedural language and object oriented language

- **Introducing PL SQL.**
- **PL SQL engine architecture.**
- **Overview of the types of PL SQL blocks.**
- **Create and execute a simple and anonymous code block.**
- **Declaring PL SQL identifiers variable constant.**
- **Writing simple code block in PL SQL.**
- **Fetching data from SQL and plsql.**
- **Interacting with the server Oracle server.**
- **Writing control structures.**
- **Working with the composite data types.**
- **Creating and using subtypes and returning Clause.**
- **Introducing cursor and its types.**
- **Handling exceptions.**
- **Handling error condition by using compiler directives.**
- **Overview of named block and oops in PL SQL.**
- **Creating stored procedures.**
- **Creating stored functions.**
- **Local subprogram and remote server program and no copy data types.**
- **Inline function and handle restriction of user defined function.**
- **Creating packages and the influence of package.**
- **Overloading of package.**
- **Code encryption by using PL/SQL wrapper.**

- Manipulating large objects.
- Introducing triggers and its types
- Handling mutating and mutating error
- Introducing server error Trigger
- Creating audit table and session auditing by Trigger
- Handle file operation (File handling)
- Advanced PL SQL
- Working with href(reference cursor)
- Introduction of collection and why it is used
- Creating and using associative array nested table Array
- Handling context switching
- Save exception
- Tuning PL SQL code
- Using name spaces
- Overview of stored package
- Overview of object types in SQL

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